

IN THE CLAIMS

This is a complete and current listing of the claims, marked with status identifiers in parentheses. The following listing of claims will replace all prior versions and listings of claims in the application.

1. (Original) A method for the providing of a plant belonging to the Brassica family with elevated levels of anticarcinogenic glucosinolates, comprising:

a) providing a cultivated Brassica oleracea plant with elevated levels of anticarcinogenic glucosinolates in the edible parts of the Brassica oleracea plant;

a) the use of the Brassica oleracea plant provided under a) as the starting material for the breeding of Brassica varieties with elevated levels of anticarcinogenic glucosinolates, wherein the anticarcinogenic glucosinolates comprise at least glucoiberin (3-methylsulphanylpropyl glucosinolate (3MSPG)) and/or glucoraphanin (4-methylsulphanylpropyl glucosinolate (4MSBG)), and wherein the concentration of 3MSPG per 100 gram of fresh weight of the edible part is greater than 100 micromol and the concentration of 4MSBG per 100 gram of fresh weight of the edible part is greater than 50 micromol.

2. (Original) The method according to claim 1, wherein the concentration of 3MSPG per 100 gram of fresh weight of the edible part is greater than 280 micromol.

3. (Currently Amended) The method according to claim 1—~~or claim 2~~, wherein the concentration of 3MSPG per 100 gram of fresh weight of the edible part is greater than 390 micromol.

4. (Currently Amended) The method according to claim 1, ~~claim 2 or claim 3~~, wherein the concentration of 3MSPG per 100 gram of fresh weight of the edible part is greater than 790 micromol.

5. (Original) The method according to claim 1, wherein the concentration of 4MSBG per 100 gram of fresh weight of the edible part is greater than 120 micromol.

6. (Original) The method according to claim 5, wherein the concentration of 4MSBG per 100 gram of fresh weight of the edible part is greater than 140 micromol.

7. (Currently Amended) The method according to ~~any of the claims 1-6~~claim 1, wherein the cultivated Brassica oleracea plant is broccoli sprout (Brassica oleracea convar. botrytis var. asparagoides).

8. (Original) The method according to claim 7, wherein the broccoli sprout (Brassica oleracea convar. botrytis var. asparagoides) variety is Bordeaux.

9. (Currently Amended) The method according to ~~any of the claims 1-6~~claim 1, wherein the cultivated Brassica oleracea plant is Savoy cabbage (Brassica oleracea convar. capitata var. sabauda).

10. (Original) The method according to claim 9, wherein the Savoy cabbage (Brassica oleracea convar. capitata var. sabauda) variety is Wirosa.

11. (Currently Amended) The method according to ~~any of the claims 1-6~~claim 1, wherein the cultivated Brassica oleracea plant is broccoli (Brassica oleracea convar. botrytis var. cymosa).

12. (Original) The method according to claim 11, wherein the broccoli (Brassica oleracea convar. botrytis var. cymosa) variety is Belstar or Coronado.

13. (Currently Amended) The method according to ~~claims 1-12~~1, wherein the plant belonging to the Brassica family is selected from the group consisting of cauliflower or romanesco (Brassica oleracea convar. botrytis var. botrytis); broccoli (Brassica oleracea convar. botrytis var. cymosa); broccoli sprout (Brassica oleracea convar. botrytis var. asparagoides); Brussels sprouts (Brassica oleracea convar. oleracea var. gemmifera); white cabbage or oxheart cabbage (Brassica oleracea convar. capitata var. alba); red cabbage (Brassica oleracea convar. capitata var. rubra); Savoy cabbage

(Brassica oleracea convar. capitata var. sabauda); kohlrabi (Brassica oleracea convar. acephala var. gongyloides); kale (Brassica oleracea convar. acephala var. sabellica); and Portuguese cabbage (Brassica oleracea var. trunchuda syn. costata).

14. (Currently Amended) A plant belonging to the Brassica family obtainable by the method of ~~any of claims 1-13~~claim 1.

15. (Currently Amended) Seeds of a plant belonging to the Brassica family obtainable by the method of ~~any of claims 1-13~~claim 1.

16. (Currently Amended) Parts of a plant belonging to the Brassica family obtainable the method of ~~any of claims 1-13~~claim 1.

17. (Currently Amended) The use of the plant, ~~seeds or parts of a plant~~ according to ~~one of claims 14-16~~claim 14 for the preparation of a food product and/or pharmaceutical composition for prophylaxis and/or treatment of cancer.

18. (New) The use of the seeds according to claim 15 for the preparation of a food product and/or pharmaceutical composition for prophylaxis and/or treatment of cancer.

19. (New) The use of the parts of a plant according to claim 16 for the preparation of a food product and/or pharmaceutical composition for prophylaxis and/or treatment of cancer.

20. (New) The method according to claim 2, wherein the concentration of 3MSPG per 100 gram of fresh weight of the edible part is greater than 390 micromol.